










Table 2.1 600EX/600EX-RT Custom Functions

Custom Function Number	Function	Settings and Description
C.Fn-00 (m/ft)	Distance indicator display	0—meters/1—feet. Depending upon where you live, set this to the most common distance designation.
C.Fn-01 ()	Auto power off	0—Enabled/1—Disabled. Auto power off turns the flash off automatically after a certain period of inactivity (not user-specified, but between 1.5 minutes to 15 minutes) to save battery power. Press the shutter button or Pilot Lamp button to reactivate the Speedlite. I choose 1 to disable this function whenever I'm working with off-camera Speedlites.
C.Fn-02 (MODELING)	Modeling flash	0—Enabled (DOF preview button)/1—Enabled (Test-firing button)/2—Enabled (both buttons)/3—Disabled.
C.Fn-03 (AUTO CANCEL)	Flash exposure bracketing (FEB) auto cancel	0—Enabled/1—Disabled. This controls the FEB auto cancel feature. After three shots are taken, FEB is automatically canceled. Set to 1 to continue taking FEB photos in sets of three.
C.Fn-04 ()	Flash exposure bracketing (FEB) sequence	0—minus exposure, plus exposure/1—minus exposure, on stop, plus exposure. I set this to 1 because on my computer, I like to see the pictures in exposure order sequence to pick the best one.
C.Fn-05 (MODE)	Flash metering mode	0—E-TTL II & E-TTL/1—TTL/2—External metering: Auto/3—External metering: Manual. This enables the user to choose between several advanced metering systems of the Speedlite along with two modes of external metering, Auto and Manual. In external Auto mode, the camera's ISO and aperture are set automatically by the Speedlite. In External Manual mode, this information must be entered into the Speedlite for the function to operate properly.
C.Fn-06 (QUICK)	Quick flash with continuous shooting	0—Disabled/1—Enabled. In situations where you don't need a lot of flash power output, if you choose 1, Quick flash can be employed for continuous shooting but operates only with the camera in Single-shot mode (). This enables you to shoot flash photos faster in Quick mode and not to have to wait for the Speedlite to fully power up. However, it can deliver underpowered flash pops.
C.Fn-07 (TEST)	Test firing with auto-flash	0—1/32 power/1—full power. This enables the user to set the power level of the test flash. I use 0 to save battery life when I just want to check if the flash is working, and I use 1 when I'm metering the flash output with a handheld light meter.




continued

Table 2.1 600EX/600EX-RT Custom Functions (*continued*)

Custom Function Number	Function	Settings and Description
C.Fn-08 ( AF)	AF-assist beam firing	0–Enabled/1–Disabled. Use this setting when you don’t need the AF-assist beam to focus the camera or in situations, such as performance photography, where the beam would be distracting to others.
C.Fn-09 ()	Auto zoom for sensor size	0–Enabled/1–Disabled. EOS digital cameras have one of three different sensor sizes. The Speedlite automatically recognizes the sensor size and adjusts the flash zoom for proper coverage. I leave this on.
C.Fn-10 ()	Slave auto power off timer	0–60 minutes/1–10 minutes. This enables the user to set the time interval the Speedlite stays active when used as a slave. I prefer the longer setting to make adjustments to the set, model, or lighting without having the slave flash power down and have to be reset.
C.Fn-11 ( → 	Slave auto power off cancel	0–Within 8 hours/1–Within 1 hour. You can specify the time range in which the slave unit’s auto power off feature can be cancelled by the master. Again, I prefer the longer time setting.
C.Fn-12 ( 	Flash recycle with external power source	<p>0–Flash and external power source/1–External power source. When the Speedlite is in its default mode, it draws power from both sets of batteries. Switching to 1 allows the flash to be recycled only by the external power source; therefore, the internal batteries last longer.</p> <p>When I’m using the CP-E4, I prefer to set Custom Function 12 for the Speedlite to the 1 setting to draw power from the battery pack only. That way I still have a fully charged set of internal batteries available if the pack runs low on power. If the internal batteries become exhausted, shooting might not be possible.</p> <p>Even with the flash set to 1, the Speedlite still requires internal batteries to operate.</p>
C.Fn-13 (	Flash exposure meter setting	0–Speedlite button and dial/1–Speedlite dial only. Setting 1 saves you a step and time by not having to press the Select/Set button on the Speedlite to access FEC settings. You simply turn the dial to the desired FEC setting and shoot.
C.Fn-20 (	Beep	0–OFF (Disable)/1–ON (Enable). 1–Enable a beep to sound when a Speedlite or slave in Radio Transmission Wireless Shooting is fully charged. The beep also sounds when the Speedlite is restricted from firing due to excessive heat in the flash head. I keep this set to 0 to be less intrusive when shooting.

continued

Table 2.1 600EX/600EX-RT Custom Functions (*continued*)

Custom Function Number	Function	Settings and Description
C.Fn-21 ()	Light distribution	<p>Change the flash coverage of the Speedlite in relation to the shooting angle of view when flash coverage is set to Automatic.</p> <p>0—(Standard): ideal flash coverage determined automatically</p> <p>1—(Guide number priority): flash coverage set automatically and slightly more telephoto than the actual angle of view. Gives priority to flash output.</p> <p>2—(Even coverage): Automatically set flash coverage, slightly wider than actual shooting angle of view. Helps reduce light falloff.</p>
C.Fn-22 ()	LCD panel illumination	<p>0—On for 12 sec./1—OFF (Disable illumination)/2—On (Illumination always on). Change the amount of time the LCD illuminates when the dial or buttons are operated. I use 0—On for 12 sec.</p>
C.Fn-23 ()	Slave flash battery check	<p>0—Enable AF-assist beam blinking /1—Disable AF-assist beam blinking. When shooting with wireless flashes, slave flash AF-assist beams blink to indicate they're fully charged. Most often I leave this enabled.</p>